Title (en)

Ethanolamine derivatives.

Title (de)

Ethanolaminderivate.

Title (fr)

Dérivés d'éthanolamine.

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Application

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Abstract (en)

The present invention provides compounds of the general formula (I)whereinAr represents a phenyl group optionally substituted by one or more substituents selected from halogen atoms, or the groups C₁₋₆alkyl, nitro, -(CH₂)qR, [where R is hydroxy, C₁₋₆ alkoxy, -NR3R4 (where R3 and R⁴ each represents a hydrogen atom, or a C₁₋₄ alkyl group, or -NR³R⁴ forms a saturated heterocyclic amino group which has 5-7 ring members and optionally contains in the ring one or more atoms selected from -O- or -S-or a group -NH- or -N(CH₃)-), -NR⁵COR⁶ (where R⁵ represents a hydrogen atom or a C₁₋₄ alkyl group, and R⁶ represents a hydrogen atom or a C₁₋₄ alkyl, Ci-₄ alkoxy, phenyl or -NR³R⁴ group), -NR^SS0₂R⁷ (where R⁷ represents a C₁₋₄ alkyl, phenyl or -NR3R4 group), -COR⁸ (where R⁸ represents hydroxy, C₁₋₄alkoxy or-NR³R⁴), -SR⁹ (where R⁹ is a hydrogen atom, or a C₁₋₄ alkyl or phenyl group), -SOR⁹, -S0₂R⁹, or -CN, and q represents an integer from 0 to 3], or -O(CH₂)₁R¹⁰ [where R¹⁰ represents a hydroxy or C₁₋₄ alkoxy group, and t is an integer 2 or 3], or Ar is a phenyl group substituted by an alkylenedioxy group of formula -O(CH₂)pO-, where p represents an integer 1 or 2:R¹ and R² each represents a hydrogen atom or a C₁₋₃ alkyl group with the proviso that the sum total of carbon atoms in R¹ and R² is not more than 4;X represents a bond or a C₁₋₇ alkylene, C₂-₇ alkynylene or C₂-₇ alkenylene chain andY represents a bond or a C₁₋₆ alkylene, C₂₋₆ alkenylene or C₂₋₆ alkynylene chain with the proviso that the sum total of carbon atoms in X and Y is 2-10;Q represents the group[where Q¹ represents C₁₋₃ alkoxy, methanesulphonyl or cyano) or the group -CH₂NHR¹¹ (where R¹¹ represents R¹²CO-. R¹²NHCO-. R¹²R¹³NSO₂- or R¹⁴SO₂-, where R¹² and R¹³ each represent a hydrogen atom or a C₁₋₃ alkyl group, and R¹⁴ represents a C₁₋₃ alkyl group), or the group -NR¹⁵R¹⁶ (where R¹⁵ represents a hydrogen atom or a C₁₋₄alkyl group, and R¹⁶ represents a hydrogen atom or a C₁₋₄alkyl group or, when R¹⁵ is a hydrogen atom. R¹⁶ also represents a C₁₋₄ alkoxycarbonyl group)]. or Q represents the groupor Q represents a phenyl group substituted by a hydroxy group and optionally also by a halogen atom;and physiologically acceptable salts and solvates (e.g. hydrates)thereof.The compounds have a stimulant action at β2-adrenorecep- tors and may be used in the treatment of diseases associated with reversible airways obstruction such as asthma and chronic bronchitis.

IPC 1-7

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Cited by

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